

Starting with two points

Are you taking notes?

Steps to write an equation in standard form given two points.

- Find the slope, remember y's on top and x's on the bottom
- Write in point slope form, use the first point
- Follow the rules for standard form to convert into standard form.
- No parenthesis
- No fractions
- X and Y on the left of the equals
- A needs to be positive

Example #1

- Write an equation in standard form given the following points, (1,1) and (3,2).
- Find the slope
- $M = 1/2$
- $Y - 1 = 1/2(x - 1)$
- As a group work to write the same equation in standard form
- $x - 2y = -1$

Example #2

- Write an equation in standard form given the following points, (2,0) and (-2,-14).
- Find the slope
- $M = 7/2$
- $Y - 0 = 7/2(x - 2)$
- As a group work to write the same equation in standard form
- $7x - 2y = 14$